



SL 10W-300W

SL 600W-1200W

Spellman's SL Series of high voltage power supplies are designed to meet uncompromising performance standards in a minimum of space. Their circuitry includes a resonant high frequency inverter with proprietary control which provides fault-free operation in extreme transient and arcing environments with greater than 85% efficiency. These full featured supplies are available in a wide range of outputs with many options.

TYPICAL APPLICATIONS

Analytical X-ray	Capacitor Charging
CPT/CRT Testing	Hipot Testing
Electrostatics	General Laboratory
E-Beam Systems	CW Lasers

OPTIONS

AOL	Adjustable Overload Trip
FG	Floating Ground (15V Standard)
FGLL	Low Leakage Floating Ground, 10nA
LR	Low Ripple, .05% p-p
NSS	No Slow Start
SS(X)	Non-Standard Slow Start (std. 6 sec.)
APT	Adjustable Power Trip
CPC	Constant Power Control
SL	Mounting Slides
IO	Instant ON
PN	Reversible Polarity
EFR	External Fault Relay
ROV	Remote Over Voltage Adjust
CMS	Current Mode Select
IDR	Improved Dynamic Response
RLPS	Remote/Local Program Select
DPM4	4 1/2 Digit Digital Panel Meter
AT	Arc Trip
BPM	Bipolar Master
BPS	Bipolar Slave
FCV	Fine Control Voltage
NAD	No Arc Detect
RFR	Remote Fault Reset

- **VERY COMPACT AND LIGHTWEIGHT**
- **LOW EMI AND RFI**
- **VOLTAGE RANGE FROM 1KV TO 130KV**
- **REVERSIBLE POLARITY STANDARD UP TO 6KV**
- **SYSTEM STATUS INDICATORS**
- **EXTENSIVE ANALOG AND DIGITAL INTERFACE**
- **ARC QUENCH/ARC COUNT/ARC TRIP**
- **OEM CUSTOMIZATION AVAILABLE**

SPECIFICATIONS

Status Indicators:

Voltage and Current Control Mode, Interlock Open and Closed, High Voltage Inhibit, Overcurrent and Overvoltage, Arc, Regulation Error, Overtemperature, Over Power (Optional).

Input:

115Vac or 220Vac±10%, 50/60Hz. Specify with order. 1200W model available in 200/220Vac only.

Output:

Models available from 1kV to 130kV. Each model is available in positive, negative or reversible polarity output.

Front Panel Controls:

Voltage and current are continuously adjustable by ten-turn potentiometers with lockable counting dials, ON/OFF circuit breaker/lamp, high voltage ON switch/indicator and high voltage OFF switch/indicator.

Voltage Regulation:

Load: 0.005% of maximum voltage for full load change.
Line: ±0.005% of maximum voltage for a ±10% input line change.

Current Regulation:

Load: 0.01% of maximum current ±100µA for full voltage change.
Line: ±0.005% of maximum current for a ±10% input line change.

Ripple:

0.1% p-p of maximum output.

Temperature Coefficient:

100ppm/°C voltage or current regulated. Higher stability is available on special order.

Ambient Temperature:

Operating: 0°C to 50°C.
Storage: -40°C to 85°C.

Stability:

100ppm/hour after 1/2 hour warm-up for both voltage and current regulation.

Metering:

Digital voltage and current meters, 3 1/2 digit ±1 least significant digit.

Output Cable:

10' (3.3m) of shielded high voltage cable removable at the rear panel.

AC Line Input Cable:

10 to 300W: IEC320 Cord Set, 6' (1.83m)
600 to 1200W: 3-conductor, 12AWG, 6' (1.83m) cable permanently attached to unit.

Dimensions:

10W – 300W: 1 3/4"H(1U) x 19"W x 19"D**
(4.45cm x 48.3cm x 48.3cm).
600W – 1200W: 3 1/2"H(2U) x 19"W x 19"D**
(8.9cm x 48.3cm x 48.3cm).

**Depth becomes 24" (60.7cm) for 80 to 130kV ranges.

Weight:

17 to 30lbs (7.7 to 14kg) depending on model.



SL SELECTION TABLE- 10W, 30W, 60W 1.75" (1U)

Table with 7 columns: kV, mA, Model, mA, Model, mA, Model. Rows include models like SL1PN10, SL2PN10, SL3PN10, SL6PN10, SL8PN10, SL10*10, SL15*10, SL20*10, SL30*10, SL40*10, SL50*10, SL60*10, SL70*10, SL80*10, SL100*10, SL120*10, SL130*10.

*Specify "P" for positive, "N" for negative, or "PN" for reversible polarity. Higher voltage models available on special order.

SL SELECTION TABLE- 150W, 300W 1.75" (1U)

Table with 5 columns: kV, mA, Model, mA, Model. Rows include models like SL1PN150, SL2PN150, SL3PN150, SL6PN150, SL8PN150, SL10*150, SL15*150, SL20*150, SL30*150, SL40*150, SL50*150, SL60*150, SL70*150, SL80*150, SL100*150, SL120*150, SL130*150.

*Specify "P" for positive, "N" for negative, or "PN" for reversible polarity. Higher voltage models available on special order.

SL SELECTION TABLE- 600W, 1200W 3.50" (2U)

Table with 5 columns: kV, mA, Model, mA, Model. Rows include models like SL1PN600, SL2PN600, SL3PN600, SL6PN600, SL8PN600, SL10*600, SL15*600, SL20*600, SL30*600, SL40*600, SL50*600, SL60*600, SL70*600, SL80*600, SL100*600, SL120*600, SL130*600.

*Specify "P" for positive, "N" for negative, or "PN" for reversible polarity. Higher voltage models available on special order.

SL TERMINAL BLOCK 26 PIN

Table with 3 columns: TB1, SIGNAL, SIGNAL PARAMETERS. Rows include signals like Power Supply Common, External Inhibit, External Interlock, Remote Current Program In, etc.



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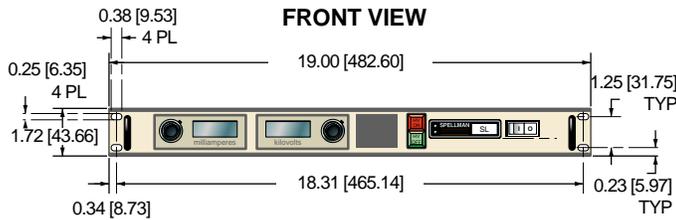
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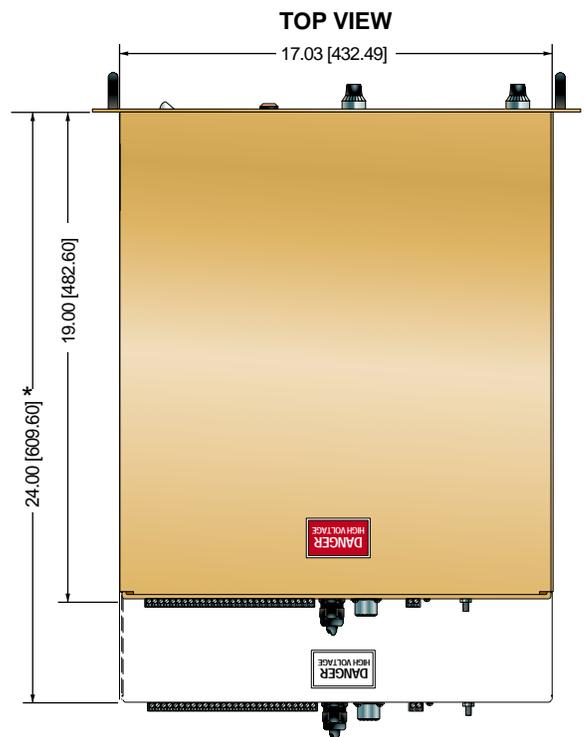
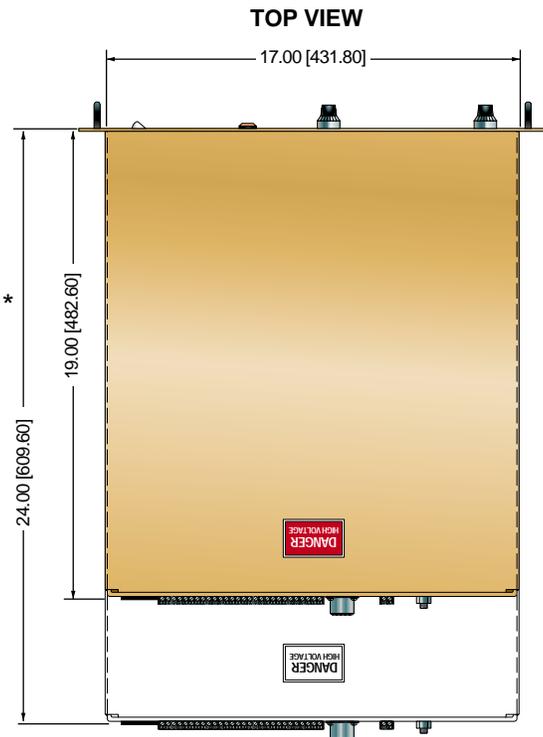
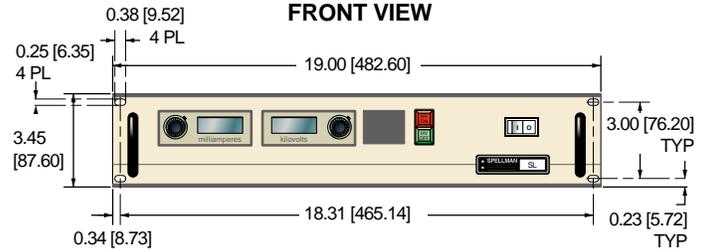
128009-001 REV.P

DIMENSIONS: in.[mm]

10W-300W



600W-1200W



* Depth becomes 24" [609.60] for 80kV to 130kV range.



A1693
ISO 9001



89/336/EEC
73/23/EEC



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